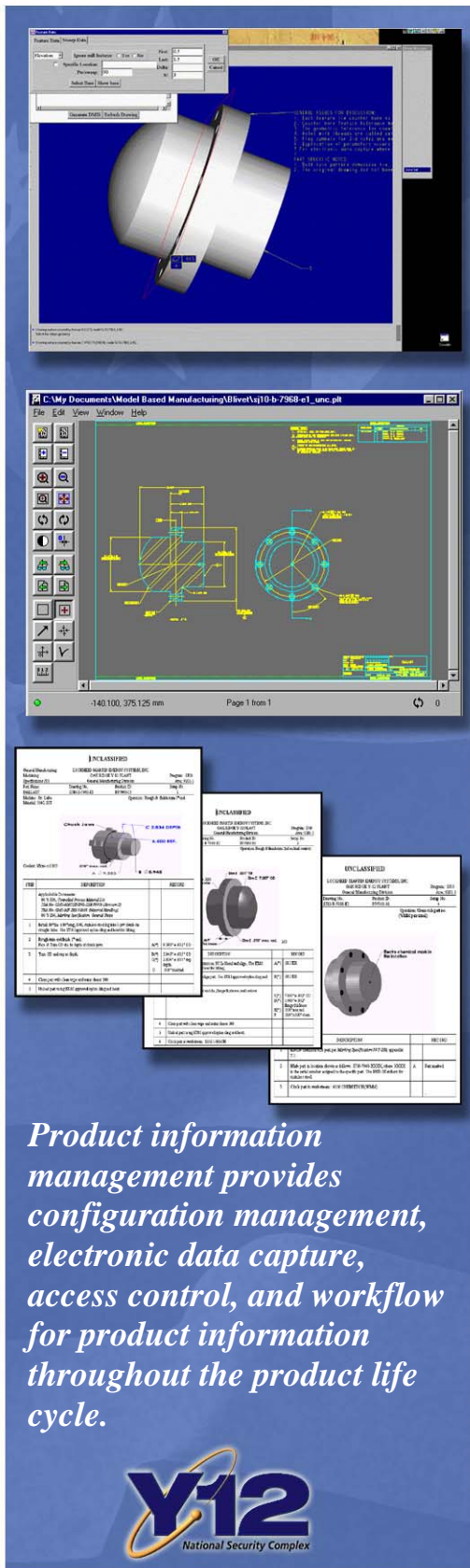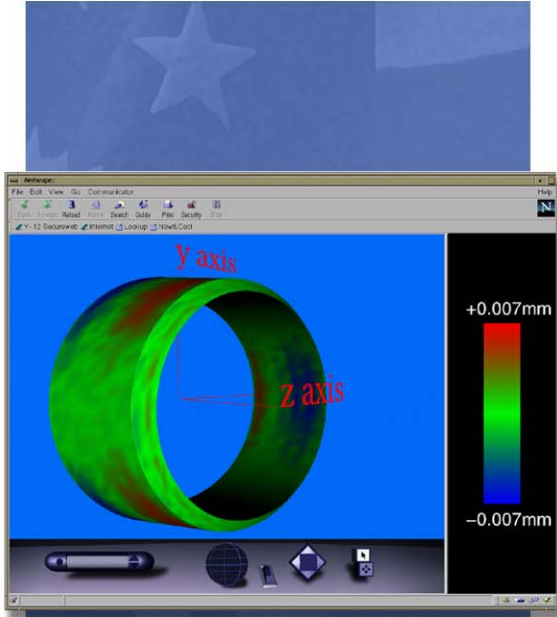# Product Information Management

Y-12 is required by DOE Quality Orders and Design Agency specifications to control the identification and status of product throughout the product life cycle; to maintain complete, current, and accurate records of product definition; and to control, verify, and provide for change to the design of the product. To ensure that all product quality requirements are met, Y-12 must provide configuration management for integrated product and part information for individual components and for collections of components, from product design through certification and surveillance activities.

Clearly, product information is a key deliverable in this environment.

## Capabilities

- Product configuration management
- Robust access control to product information
- Creation and management of electronic certification records
- Electronic data capture
- Certification for use in the classified environment
- Model-based technologies
- "As-built" data analysis for manufacturing process evaluation
- Product information workflow (comment, approval, and release) processes
- Migration of legacy product information
- Integration of product and part information residing in multiple systems
- Integration with other Nuclear Weapons Complex site product information systems
- Web-based user interfaces

*Product information management provides configuration management, electronic data capture, access control, and workflow for product information throughout the product life cycle.*

*As-built models generated from dimensional inspection information illustrate tolerance variations.*

## Applications

The Technical Computing organization at Y-12 develops and maintains integrated, Web-based product information management software applications within a commercial Product Lifecycle Manager tool. Extensive expertise and experience have been developed in product information management applications in the classified environment. Applications have been provided in the following areas:

- Product configuration management systems
- Product model and document release, effectivity, and notification systems
- Electronic data capture systems
- Electronic certification record systems
- Engineering workflow systems
- Deviation systems
- Record of assembly systems
- Quality data auditing systems
- Quality data analysis systems

*For more information, contact:*

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